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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/661,749	09/12/2003	Kevin Choi	050321-1641	8137
24504	7590	01/28/2004	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 GALLERIA PARKWAY, NW STE 1750 ATLANTA, GA 30339-5948			CHOE, HENRY	
			ART UNIT	PAPER NUMBER
			2817	

DATE MAILED: 01/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Applicati n N .

10/661,749

Applicant(s)

CHOI, KEVIN

Examin r

Henry K Choe

Art Unit

2817

-- The MAILING DATE of this c mmunicati n appears n the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-9 and 11-22 is/are rejected.
- 7) ☒ Claim(s) 2,10 and 23 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

Claim 21 is objected to because of the following informalities: in line 1 of claim 21, should "a first portion the" be --a first portion of the--? Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3-9 and 11-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Cheng et al (Fig. 4).

Regarding claims 1, 8, 9, 16 and 22, Cheng et al (Fig. 4) discloses an amplifier circuit comprising a first power amplifier (408), a bias controller (DAC138), a second power amplifier (410), a prematching impedance network (418), means (404) which combines an output (output of 408) of a first power amplifier (408) with an output (output of 410) of a second power amplifier (410) via a coupler (404), and a prematching impedance network means (418) which is coupled to the second power amplifier (410)

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for adjusting a system impedance to a first impedance value [(very high impedance) see column 9, lines 28-49 and column 10, 50-62] when the second power amplifier (410) is not actuated and for adjusting a system impedance to a second impedance value when the second power amplifier (410) is actuated (see column 9, line 51 to column 10, line 45).

Regarding claims 3, 11 and 17, the prematching impedance network means (418) is coupled to an input of the second power amplifier (410).

Regarding claims 4, 12 and 18, the prematching impedance network means (402) is coupled to an output of the second power amplifier (410).

Regarding claims 5, 13 and 19, the prematching impedance network means (418) is coupled to the inputs of the first (408) and second (410) power amplifiers.

Regarding claims 6, 14 and 20, a first portion of the prematching impedance network means (418) is coupled to an input of the second power amplifier (410) and a second portion of the prematching impedance network means (402) is coupled to the output of the second power amplifier (410).

Regarding claims 7, 15 and 21, a first portion of the prematching impedance network means (left half side of 418) is coupled to an input of the first power amplifier (408) and a second portion of the prematching impedance network means (right half side of 418) is coupled to an input of the second power amplifier (410) and a third portion of the prematching impedance network means (402) is coupled to the output of the second power amplifier (410).

Allowable Subject Matter


Claims 2, 10 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Reasons for Allowance

The following is a statement of reasons for the indication of allowable subject matter: Regarding claims 2, 10 and 23, the closest prior art of record, Cheng et al (Fig. 4) does not disclose the following limitations: prematching impedance network adjusts the system impedance to a first and second phase angle.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571)272-1760. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bob Pascal, can be reached on (571) 272-1769.


HENRY CHOE
PRIMARY EXAMINER